

Data Set Number 159: Quantity and quality of materials used for recycling system of three villages in Fakara/Niger 2004-2005

Identification_Information:

Citation:

Citation_Information:

Originator: Keiichi Hayashi

Publication_Date: 20050912

Title: Quantity and quality of materials used for recycling system of three villages in Fakara/Niger 2004-2005

Geospatial_Data_Presentation_Form: tabular digital data

Series_Information:

Series_Name: Report of Intermediate Evaluation Meeting for JIRCAS-ICRISAT collaborative Project

Issue_Identification: pp24-31

Publication_Information:

Publication_Place: Japan

Publisher: JIRCAS

Online_Linkage: \\Isc-svr01\GeoNetwork\fakaradatabase\h.keiishi\quantity and quality of materials used for recycling system of three villages in fakara\Quantity and quality of materials used for recycling system of three villages in Fakara.dbf

Description:

Abstract: 5 households in Banizoumbou, Tchigo Tegui and Ko Dey of Fakara were taken in order to conduct the survey and we surveyed 17 farms in terms of recycling activity. Mean of transport, frequency, sort of sources, quantity were determined. Quantity of recycled materials was estimated based on the information and its quality is being determined through labo analysis. Results showed tha the frequency of application was 222times in average and applied amount as well as applied area was 1215m³/ha, 0.41 ha, respectively. However, the content of transported manure was occupied largely by sand (47%) and 20% was occupied by low and not decomposable materials. Only 33% of whole materials were occupied by cow dung. This should be also taken into account for the quality improvement on this management.

Purpose: To obtain quantitative information on recycling system in order to evaluate organic resource mobilization in agriculture

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 2004

Ending_Date: 2005

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: 2.583333

East_Bounding_Coordinate: 2.866667

North_Bounding_Coordinate: 13.583333

South_Bounding_Coordinate: 13.333333

Data_Set_G-Polygon:

Data_Set_G-Polygon_Outer_G-Ring:

G-Ring_Point:

G-Ring_Latitude: 13.52775
 G-Ring_Longitude: 2.66024
 G-Ring_Point:
 G-Ring_Latitude: 13.50950
 G-Ring_Longitude: 2.77607
 G-Ring_Point:
 G-Ring_Latitude: 13.50219
 G-Ring_Longitude: 2.63092

Keywords:
 Theme:
 Theme_Keyword_Thesaurus: None
 Theme_Keyword: Local soil fertility management
 Theme_Keyword: Recycling system
 Theme_Keyword: Millet production
 Place:
 Place_Keyword_Thesaurus: None
 Place_Keyword: Banizoumbou
 Place_Keyword: Tchigo Tegui
 Place_Keyword: Ko Dey
 Place_Keyword: Fakara
 Place_Keyword: Niger
 Place_Keyword: West Africa
 Access_Constraints: Restricted
 Use_Constraints: Restricted
 Point_of_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Keiichi Hayashi
 Contact_Organization: JIRCAS
 Contact_Address:
 Address_Type: mailing and physical
 City: 1-1 Ohwashi, Tsukuba
 State_or_Province: Ibaraki
 Postal_Code: 305-8686
 Country: Japan
 Contact_Voice_Telephone: +81-29-838-6355
 Contact_Voice_Telephone: +227-20722529/ 20722626
 Contact_Electronic_Mail_Address: khayash@jircas.affrc.go.jp
 Contact_Electronic_Mail_Address: k.hayashi@cgiar.org
 Hours_of_Service: 9:00am to 6:00pm j+8
 Contact_Instructions: Prefer contact by email address
 Native_Data_Set_Environment: Microsoft Excel; dBase ; ESRI ArcCatalog
 9.0.0.535

Cross Reference:
 Citation_Information:
 Originator: Gandah, M., Brouwer, J., Hiernaux, P. and Van
 Duivenbooden, N
 Publication_Date: 2003
 Title: Fertility management and landscape position: farmers?
 use of nutrient sources in western Niger and possible improvements
 Series_Information:
 Series_Name: Nutrient Cycling in Agroecosystems
 Issue_Identification: 67: 55-66
 Publication_Information:
 Publication_Place: Netherlands
 Publisher: Springer

Cross Reference:

Citation_Information:
 Originator: Williams T.O., J.M. Powell & S. Fernández-Rivera
 Publication_Date: 1995
 Title: Manure availability in relation to sustainable food crop production in Semi-Arid West Africa: evidence from Niger.

Series_Information:
 Series_Name: Quaterly J. Int. Agr.
 Issue_Identification: 34: 248258

Data_Quality_Information:
 Attribute_Accuracy:
 Attribute_Accuracy_Report: 19 farms of 15 Jerma households in three villages
 Quantitative_Attribute_Accuracy_Assessment:
 Attribute_Accuracy_Value: Number of household, farm and sample of transported manure
 Attribute_Accuracy_Explanation:
 Banizoumbou vilage; 1 farm (BBZ9) with 1 sample, 1 farm (BBZ39) with 1 sample, 1 farm (BBZ23) with 1 sample, 1 farm (BBZ70) with 1 sample, 1 farm (BBZ67) with 1 sample
 Tchigo Tegui village; 2 farms (TTF3) with 1 sample, 1 farm (TTF6) with 1 sample, 1 farm (TTF70) with 1 sample, 1 farm (T7) with 1 sample, 1 farm (TTF8) with 1 sample
 Ko Dey village; 2 farms (KK61) with 1 sample, 1 farm (KK46) with 1 sample, 3 famrs (K122) with 1 sample, 1 famr (KK15) with 1 sample, 1 farm (KK31) with 1 sample

Lineage:
 Process_Step:
 Process_Description: Data were collected through an interview by questionnaire in three villages and were input into spreadsheet of Excel and processed by Excel
 Process_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Person: Keiichi Hayashi
 Contact_Organization: JIRCAS
 Contact_Address:
 Address_Type: mailing and physical
 Address: Japan International Research Center for Agricultural Sciences
 City: 1-1 Ohwashi Tsukuba
 Postal_Code: 305-8686
 Country: Japan
 Contact_Voice_Telephone: +81-29-838-6355
 Contact_Voice_Telephone: +227-20-722529
 Contact_Electronic_Mail_Address: khayash@jircas.affrc.go.jp
 Contact_Electronic_Mail_Address: k.hayashi@cgiar.org

Spatial_Data_Organization_Information:
 Direct_Spatial_Reference_Method: Point
 Point_and_Vector_Object_Information:
 SDTS_Terms_Description:
 SDTS_Point_and_Vector_Object_Type: Area point

Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Entity_Type_Label: Quantity and quality of materials used for recycling system of three villages in Fakara
 Attribute:

Attribute_Label: OID
 Attribute_Definition: Internal feature number.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Sequential unique whole numbers that
 are automatically generated.

Attribute:
 Attribute_Label: C1
 Attribute_Definition: First name of the farmer
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C2
 Attribute_Definition: Second name of the farmer
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C3
 Attribute_Definition: Name of the village: BZ (Banizoumbou); TT
 (Tigo teguey) KK (Kodey)
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C4
 Attribute_Definition: Longitude of the place
 Attribute_Definition_Source: None

Attribute:
 Attribute_Label: C5
 Attribute_Definition: Latitude
 Attribute_Definition_Source: None

Attribute:
 Attribute_Label: C6
 Attribute_Definition: Type of manure transported on Field
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C7
 Attribute_Definition: Soil quantity
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C8
 Attribute_Definition: Manure quantity
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C9
 Attribute_Definition: Soft organic matter quantity
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C10
 Attribute_Definition: Hard organic matter quantity
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C11
 Attribute_Definition: Others materiels quantity
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C12
 Attribute_Definition: Quantity of all materiels
 Attribute_Definition_Source: Keiichi Hayashi

Attribute:
 Attribute_Label: C13

Attribute_Definition: Total Nitrogen proportion in Soil
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C14
 Attribute_Definition: Total Phosphorus proportion in Soil
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C15
 Attribute_Definition: Total organic Carbone proportion in Soil
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C16
 Attribute_Definition: Total Nitrogen proportion in Manure
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C17
 Attribute_Definition: Total Phosphorus proportion in Manure
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C18
 Attribute_Definition: Total organic Carbone proportion in Manure
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C19
 Attribute_Definition: Total Nitrogen proportion in Soft organic
 matter
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C20
 Attribute_Definition: Total Phosphorus proportion in Soft organic
 matter
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C21
 Attribute_Definition: Total organic Carbone proportion in Soft
 organic matter
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C22
 Attribute_Definition: Total Nitrogen proportion in Total
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C23
 Attribute_Definition: Total Phosphorus proportion in Total
 Attribute_Definition_Source: Keiichi Hayashi
 Attribute:
 Attribute_Label: C24
 Attribute_Definition: Total Carbone proportion in Total
 Attribute_Definition_Source: Keiichi Hayashi
 Overview_Description:
 Entity_and_Attribute_Overview:
 the table contains the name of farmers, the coordinate of the
 villages , and values of soil, Manureand organic matter. At the end of
 the table we have four repetitions of 'T-N; TP and C org;' that come
 respectively in the same order of Soil, Manure, Organic Matter (OM),
 and total.

For the Soil, Organics Matter (OM), and Total attribute, we have only the results concerning Nitrogen (N)

For the Manure, we have the results concerning Nitrogen (N) and Phosphorus (P)

Dataset Overview:

Type	OM(soft)	Soil
Manure		
Cow feces	23000	5324.49
2971.58		
Cow feces +rubbish	24720	4240
2368.03		
Rubbish	1281.9	5180
4880		
Cow feces+rubbish	41580	9480
8900		
Cow feces	20000	10360
4900		
Ptt ruminnt+rubbish	23800	20000
1842		

Distribution Information:

Distributor:

Contact Information:

Contact Organization Primary:

Contact Organization: Japan International Research Center for Agricultural Sciences (JIRCAS)

Contact Address:

Address Type: mailing and physical

Address: 305 8686 JAPAN

City: Ohwashi, Tsukuba, Ibaraki

Country: JAPAN

Contact Voice Telephone: +81 29 838 6330

Contact Facsimile Telephone: +81 29 838 6316

Contact Electronic Mail Address: head@ml.affrc.go.jp

Hours of Service: 9:00am to 6:00pm j+8

Contact Instructions: <http://www.jircas.affrc.go.jp>

Resource Description: Downloadable Data

Standard Order Process:

Digital Form:

Digital Transfer Information:

Format Name: dBase

Format Version Number: 4

Transfer Size: 0.011

Metadata Reference Information:

Metadata Date: 20070117

Metadata Contact:

Contact Information:

Contact Organization Primary:

Contact Organization: ICRISATSC

Contact Person: AMADOU M.Laouali

Contact Position: Consultant

Contact Address:

Address Type: mailing and physical address

Address: BP: 12404

City: Niamey

Country: Niger

Contact Voice Telephone: 0022720722626

Contact_Electronic_Mail_Address: a.m.laouali@cgiar.org
Hours_of_Service: 8h00 am - 16h00 pm z+1
Contact_Instructions: prefer to be contact by email address
Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Access_Constraints: Restricted
Metadata_Use_Constraints: Restricted
Metadata_Security_Information:
Metadata_Security_Classification_System: none
Metadata_Security_Classification: Unclassified
Metadata_Security_Handling_Description: none
Metadata_Extensions:
Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
Profile_Name: ESRI Metadata Profile